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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/751,059	12/29/2000	James R. Baker JR.	UM-04491	8985
72960	7590	12/09/2009	EXAMINER	
Casimir Jones, S.C. 2275 DEMING WAY, SUITE 310 MIDDLETON, WI 53562			FUBARA, BLESSING M	
ART UNIT		PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 09/751,059	Applicant(s) BAKER ET AL.
	Examiner BLESSING M. FUBARA	Art Unit 1618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(o).

Status

1) Responsive to communication(s) filed on 14 August 2009.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 186,191-194,199,200,202 and 204-206 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 186,191-194,199,200,202 and 204-206 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____

5) Notice of Informal Patent Application (PTO-162)
 6) Other: _____

DETAILED ACTION

The examiner acknowledges receipt of request for extension of time, amendment and remarks filed 8/14/09. Claims 186 and 200 are amended. Claims 189, 190, 201 and 203 are canceled. Claims 186, 191-194, 199, 200, 202 and 204-206 are pending.

Response to Arguments

Previous rejections that are not reiterated herein have been withdrawn (claim 103 is canceled).

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 186, 191-194, 199, 200, 202 and 204-206 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. This is new matter rejection.

4. Claims 186, 200 and 202 recite the phrase "consisting of" and the specification as originally filed does not envision composition that consists of.

5. Claims 186, 191-194, 199, 200, 202 and 204-206 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. This is written description.

6. Claims 186, 200 and 202 recite the phrase "consisting of" and the specification as originally filed does not describe what applicant intends by a composition that consists of. There is no description in the specification of compositions that meet that limitation.

7. The rejections may be overcome by removing the new matter and/or terms that are not originally described in the specification.

Response to Arguments

8. Applicant's arguments filed 8/14/09 have been fully considered but they are not persuasive.

9. Applicant argues that the original specification envisions composition that consists of 1-5 and 1-6 in claims 186, 200 and 202. Applicant supports this position by saying that the specification describes that EDTA can be included in any of the described compositions.

10. Applicant's position supports the rejection that the specification did not envision a composition that consists of the components as defined in claims 186, 200 and 202. The specification did not define what applicant now claims to be consisting.

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a). 186, 191-194, 199, 200, 202 and 204-206

13. Claims 186, 191-194, 199, 200, 202 and 204-206 are rejected under 35 U.S.C. 103(a) as being unpatentable over Libin (US 5,855,872) in view of Stroud et al. (US 6,231,837).

14. The rejection is modified to account for the amendment to the claims filed 8/14/09.

15. Libin discloses method of treating diseased tissues that results from herpes simplex virus infection, by applying an oil in water emulsion that contains cetylpyridinium chloride, sterol alcohol, emulsifying agent and mineral oil (abstract; column 1, lines 42, 47-55; column 2, lines 26-64; column 3, line 25 to column 4 line 29) without specifically mentioning a human while disclosing topical application. Stroud teaches an oil in water emulsion (column 17, lines 51 and

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52; column 18, lines 6 and 7; column 22, line 14) that is a self tanning composition (column 7, lines 28,29; column 11, line 26; column 12, lines 29 and 30) that contains glycerol (column 7, lines 39 and 40; column 15, lines 41 and 42), ethanol (column 11, line 41), antimicrobial or antifungal agents (column 18, lines 43-46), preservatives or chelating agent such as EDTA helps maintain the ionic strength of the composition(column 19, lines 26, and 54-59), antiviral agent for treating herpes simplex or herpes zoster or chickenpox (column 21, lines 7-9), emollients such as castor oil or soybean oil (column 21, lines 29-32) and surfactant such as polysorbate 20 (column 24, lines 30, 50 and 51), which is TWEEN 20; the oil in water emulsion of Stroud is formulated as cream, lotion or ointment (column 17, lines 31, 32). Stroud teaches that the self-tanning formulations are approved for use with humans (column 2, lines 61 and 65). Regarding the %amounts of ethanol, surfactant and % volume oil, the ordinary skilled artisan has within his or her technical grasp to use amounts of oil, surfactant and ethanol desired in the composition that would be effective to treat herpes simplex virus. Both compositions have utility in the treatment of herpes simplex virus via topical route so that a combination of the compositions of Stroud and Libin will yield a composition that would be effective in treating herpes simplex virus.

16. The application to human the combined composition that contains alcohol, surfactant, oil and the cetylpyridinium chloride meets claims 186 and 200. The presence of the ETDA meets claim 202. The presence of oil or soybean oil meets claims 191 and 192. Polysorbate 20, which is TWEEN 20 meets claims 193 and 194. Ethanol present in the formulation meets claims 186, 200 and 202. The topical application of the formulation in the form of ointment or lotion or cream meets claims 186, 199 and 200.

17. Both Libin and Stroud teach emulsion and emulsion is generic to microemulsion and nanoemulsion and therefore encompasses nanoemulsion and/or microemulsion. For new claims 204-206 that recite the particle size, it is noted that microemulsions and nanoemulsions have typical size ranges, for example, Jafari et al in the International Journal of Food Properties disclose nanoemulsions having particles in the size range of 150-700 nm (0.15-0.7 microns) (see the abstract) and Bouchemal et al in the International Journal of Pharmaceutics disclose the size of nanoemulsions at a range of 100-600 nm (0.1 to 0.6 micron). These typical sizes fall within the recited particle size for the claimed composition. The comprising language precedes the second transitional consisting language and keeps the claim open.

18. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the composition of Stroud and Libin with the motivation that topically applying the composition to affected areas of a person in need thereof, and specifically to humans in view of Stroud, would treat the affected areas of herpes simplex. Treating the virus results from inactivating the virus and thus leads to decontaminating the affected area.

19. Claims 186, 191, 193, 194, 199, 200, 204 and 205 are rejected under 35 U.S.C. 103(a) as unpatentable over Asculai et al. (US 4,020,183) in view of Keith et al. (US 4,350,707). The rejection is modified to accommodate amendment to the claims filed 8/14/09.

20. Asculai discloses inactivating herpes simplex virus in humans by applying to the infected area an effective amount of oil-in-water emulsion that contains surfactants such as polysorbate 20, which is TWEEN 20 (column 1, line 61; Table 1), halogen containing compound such as cetylpyridinium chloride or benzalkonium chloride (column 1, lines 16 and 17), mineral oil of

petrolatum (column 2, lines 48 and 49), alcohols (line 41), the formulation is in the form of cream or lotion (column 2, line 46). Asculai describes method of inactivating the herpes simplex virus in humans by applying the composition to the affected areas (claims 1-6) and while Asculai does not use the term decontamination, inactivation naturally leads to decontamination so that Asculai inherently decontaminates surfaces of the human. Asculai uses surfactant in amounts of between 0.5% and 20%. The composition of Asculai does not contain ethanol as now recited in claims 186, 200 and 202.

21. Asculai teaches emulsion and emulsion is generic to microemulsion and nanoemulsion and therefore encompasses nanoemulsion and/or microemulsion. For claims 204 and 205 that recite the particle size, it is noted that microemulsions and nanoemulsions have typical size ranges, for example, Jafari et al in the International Journal of Food Properties disclose nanoemulsions having particles in the size range of 150-700 nm (0.15-0.7 microns) (see the abstract) and Bouchemal et al in the International Journal of Pharmaceutics disclose the size of nanoemulsions at a range of 100-600 nm (0.1 to 0.6 micron). These typical sizes fall within the recited particle size for the claimed composition.

22. But Keith uses ethanol containing composition to topically treat herpes simplex virus. Therefore, given the teachings of Asculai and Keith, one of ordinary skill in the art at the time the invention was made would have reasonable expectation of success to inactivate or treat surfaces having the herpes simplex virus with the composition of Asculai to which has been ethanol. While the %ethanol used in Keith is higher than that recited, the mere fact a range is claimed indicates that the amount of the ethanol can be optimized to produce the composition effective to treat the surface of virus.

Response to Arguments

23. Applicant's arguments filed 8/14/09 have been fully considered but they are not persuasive. It is noted that the applicant has argued the references together and the response given below is also applicable to the rejections: i) Claims 186, 189-194 and 199-206 rejected under 35 U.S.C. 103(a) as being unpatentable over Libin (US 5,855,872) in view of Stroud et al. (US 6,231,837); ii) Asculai et al. (US 4,020,183) in view of Keith et al. (US 4,350,707); the rejections over Libin (US 5,855,872) in view of Thomsen et al. (US 6,342,537, Thomsen I) or Thomsen et al. (US 5,981,605, Thomsen II) and further in view of Mulder (US 5536502) and Asculai et al. (US 4,020,183) is withdrawn.

24. Applicant argues that the claims are not obvious and that the examiner has not put forth prima facie case of obviousness citing *In re Rijckaert*, *In re Bell* and *In re Vaeck*.

25. The examiner disagrees. Prima facie case of obviousness was presented in the rejections. With respect to a): *In re Rijckaert* the court said that the matching of signal time to recording time is optional condition that would not be met by the Awamoto reference because the condition is not inherent in Awamoto and there was no means of achieving this condition in Awamoto. In the present rejections of the claims, Libin and Stroud, each teach topical application of an emulsion to treat conditions such as *Herpes Simplex I*. In this case the anticipated effect of Libin and Stroud meets the method of topically *Herpes Simplex I*. b): With regards to *In re Bell*, the court rejected the notion that once a structure of a protein is known, one can use the genetic code to hypothesize possible structures for the corresponding gene because according to the court, there are vast numbers of nucleotide sequences that might code for a

specific protein. This is different from treating *Herpes Simplex I* with a nonoemulsion containing oil, water/aqueous phase, ethanol, EDTA, surfactant and cetylpyridinium disinfectant.

c): With respect to applicant's argument that the claimed reference does not suggest the claimed subject matter, citing *In re Vaeck*, the examiner notes that Libin and Stroud suggest treating *Herpes Simplex I*, which is the subject of the claimed method. Therefore, the cited art teaches and suggests the claimed subject matter.

26. Applicant argues that the cited references do not teach or suggest all the limitations of the claims because the composition of the prior art is excluded by the language of "consisting of" in the claims.

27. The examiner disagrees because the comprising language precedes the "consisting of" language so that the claim language does not exclude the composition of Libin or Stroud or Libin in view of Stroud or Asculai in view of Keith. See *In re Crish* at 73 USPQ2d 1364.

28. Applicant further argues that there is no motivation to combine the cited references.

29. The examiner disagrees. Applicant's argument hinges on the premise that the secondary "consisting of" language excludes the antiviral Triclosan of Libin. But, as stated above, the primary comprising language preceding the secondary consisting of language is open. See *In re Crish* at 73 USPQ2d 1364. Furthermore, contrary to applicant's arguments regarding removal of the Triclosan and other ingredients from Libin, it is noted that the rejections have not advocated the removal of Triclosan from the composition Libin to meet the limitations of the claims.

30. Libin in view of Stroud topically applies ointment (Libin at abstract, column 1, lines 21 and 49, column 5, line 13 and claim 4) comprising cetylpyridinium chloride, alcohol, mineral oil and emulsifying agent as described in the rejections; Stroud teaches that compositions such as that described for Libin is approved for use with humans . If the difference in applicant's view is the respective amounts of ethanol, surfactant and the halogen containing compound, halogen containing compound, it would be well within the technical grasp of the ordinary artisan to use amounts of ethanol, surfactant and halogen containing compound that would provide an emulsion that when topically applied to the human skin would treat diseased tissues resulting from herpes simplex virus infection. If the difference is that the prior art teaches emulsion and the claims recited nanoemulsion, it is noted that nanoemulsion is a type of emulsion (see definition of emulsion and nanoemulsion from Answers.com, <http://www.answers.com/topic/emulsion>). Topically applying nanoemulsion composition comprising disperse or oil phase, continuous or aqueous phase, 3-15% ethanol, 3-15% surfactant and 0.5-2% or 1-10% of cetylpyridinium chloride is not inventive over the prior art that topically applies an emulsion comprising disperse or oil phase, continuous or aqueous phase, ethanol, surfactant and cetylpyridinium chloride.

31. Libin and Stroud, each teach compositions that are topically applied to treat *Herpes Simplex I virus* infection. Thus, there is reasonable expectation that the combination of the two compositions that are separately taught in the art to treat *Herpes Simplex I virus* infection would be effective in also treating the *Herpes Simplex I virus* infection. In the same way, Asculai describes inactivating *Herpes Simplex I virus* while Keith describes using ethanol containing composition to treat *Herpes Simplex I virus* infection; thus because the goal of Keith and Asculai

intersect or meet, one having ordinary skill in the art at the time the invention was made would reasonably expect that the addition of ethanol to composition of Asculai would produce the anticipated effect, that is, to treat *Herpes Simplex I virus* infection. There in lies the motivation. It is also however noted that the court in the KSR case was clear that the TSM test is not the only test.

32. No claim is allowed.

33. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

34. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BLESSING M. FUBARA whose telephone number is (571)272-0594. The examiner can normally be reached on Monday to Thursday from 7 a.m. to 5:30 p.m.

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35. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Hartley can be reached on (571) 272-0616. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

36. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Blessing M. Fubara/
Primary Examiner, Art Unit 1618